

1/29

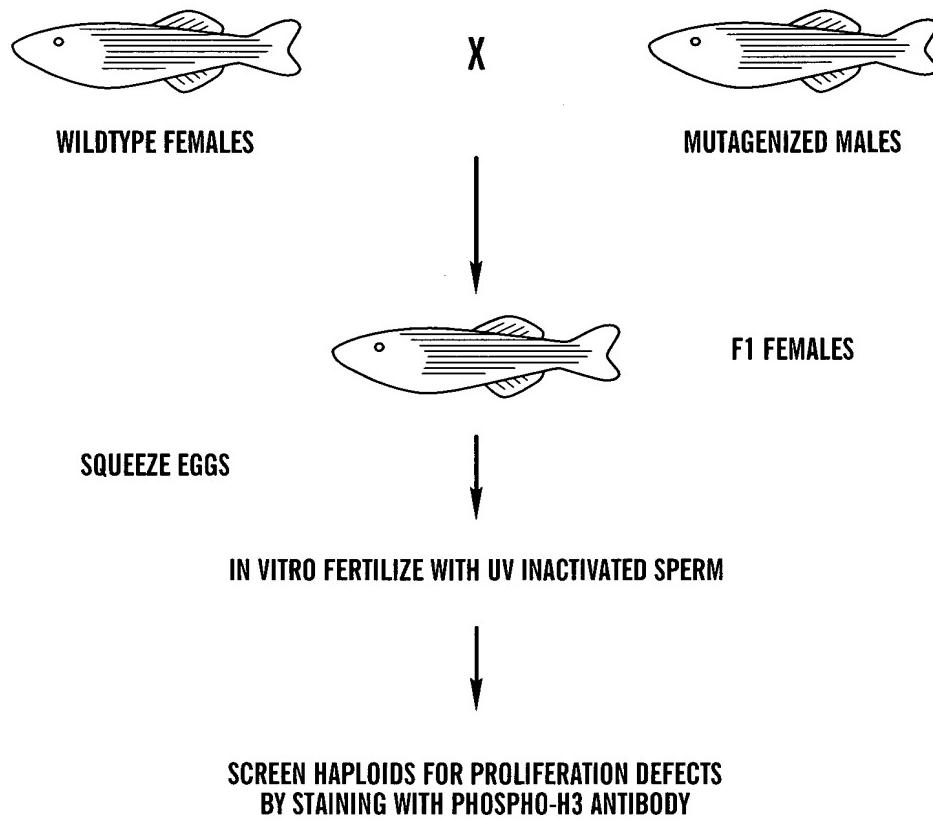
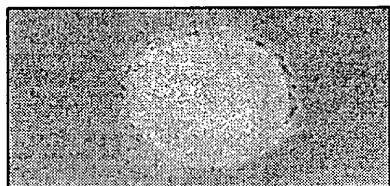


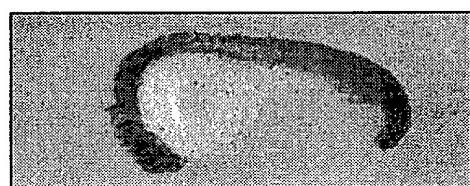
FIG. 1

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12 HPF

FIG. 2A



16 HPF

FIG. 2B



24 HPF

FIG. 2C

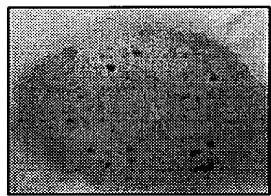


48 HPF

FIG. 2D

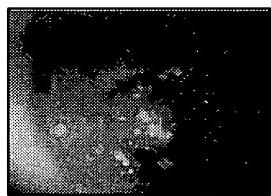
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H3 ANTIBODY 24 HPF

FIG. 3A



ACRIDINE ORANGE 24 HPF

FIG. 3B

TOP SECRET//
REF ID: A65260

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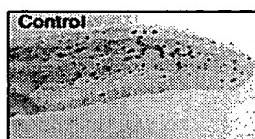


FIG. 4A

CONTROL



FIG. 4B

15 MIN POST-RADIATION

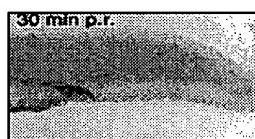


FIG. 4C

30 MIN POST-RADIATION

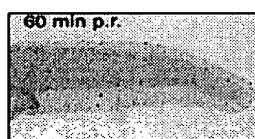


FIG. 4D

60 MIN POST-RADIATION

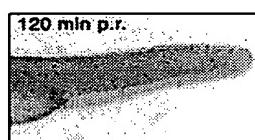


FIG. 4E

120 MIN POST-RADIATION

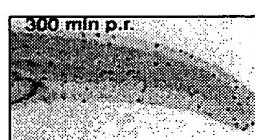


FIG. 4F

300 MIN POST-RADIATION

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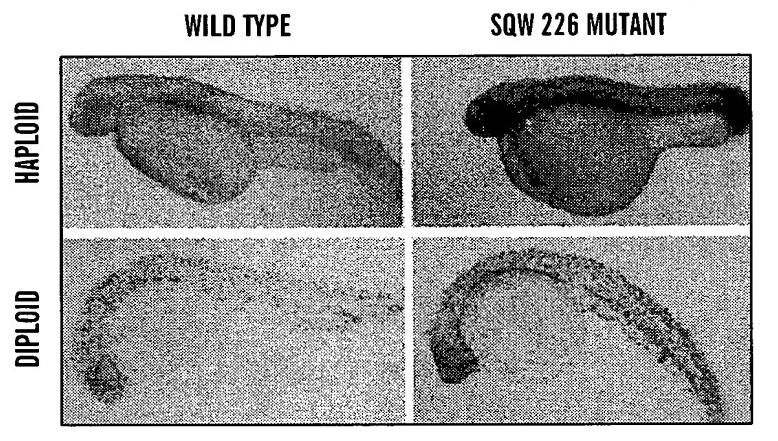


FIG. 5A

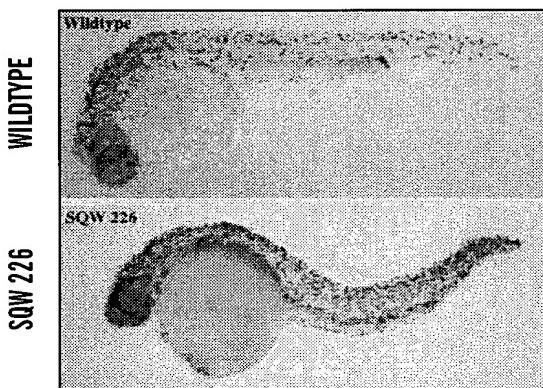


FIG. 5B

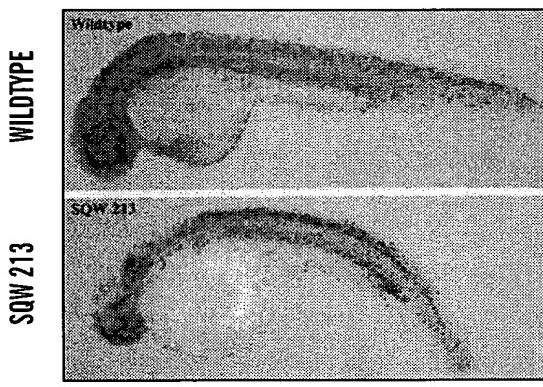


FIG. 5C

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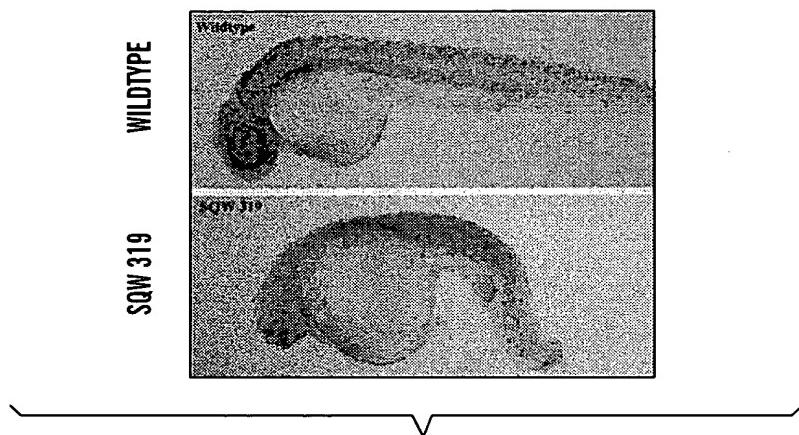


FIG. 5D

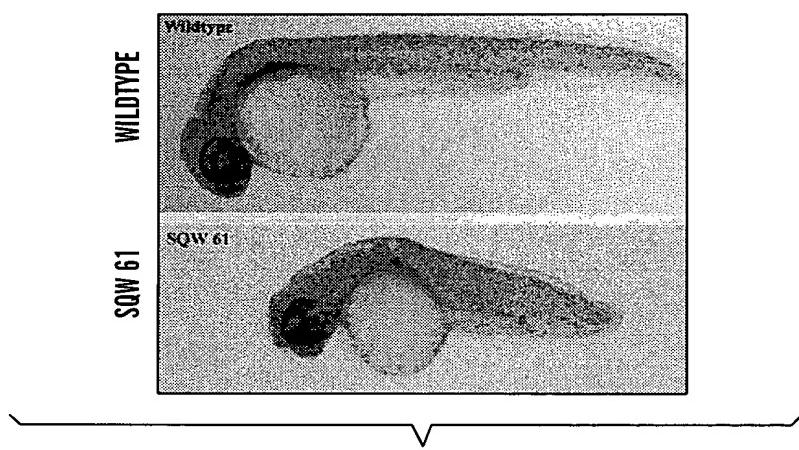


FIG. 5E

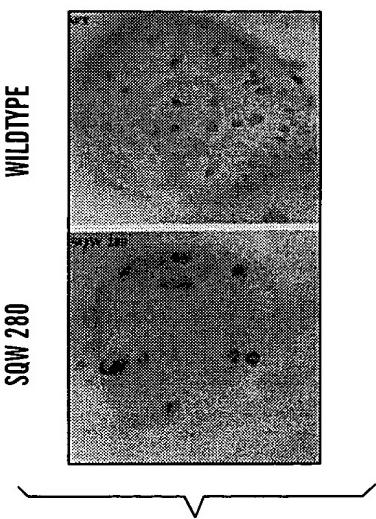


FIG. 5F

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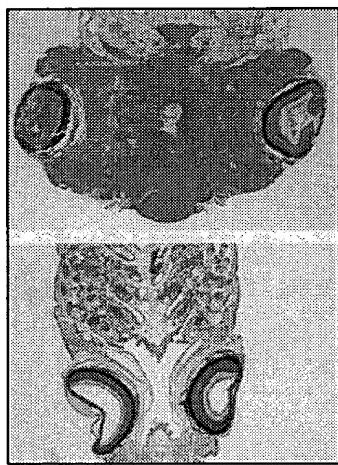


FIG. 6A

ZEBRAFISH



HUMAN



FIG. 6B

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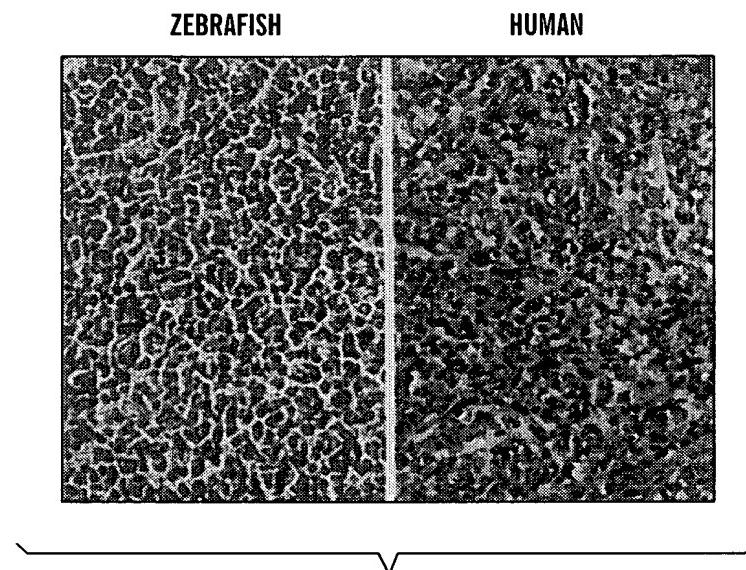


FIG. 6C

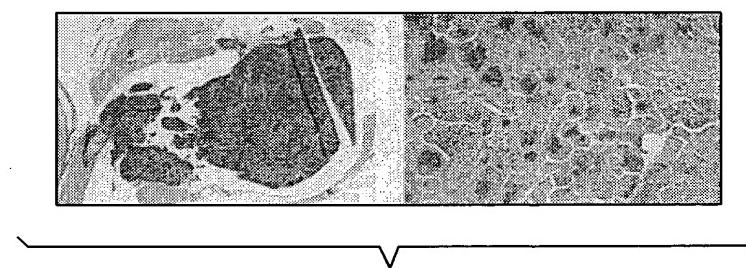


FIG. 6D

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TYPE 30 "ZOOLOGO

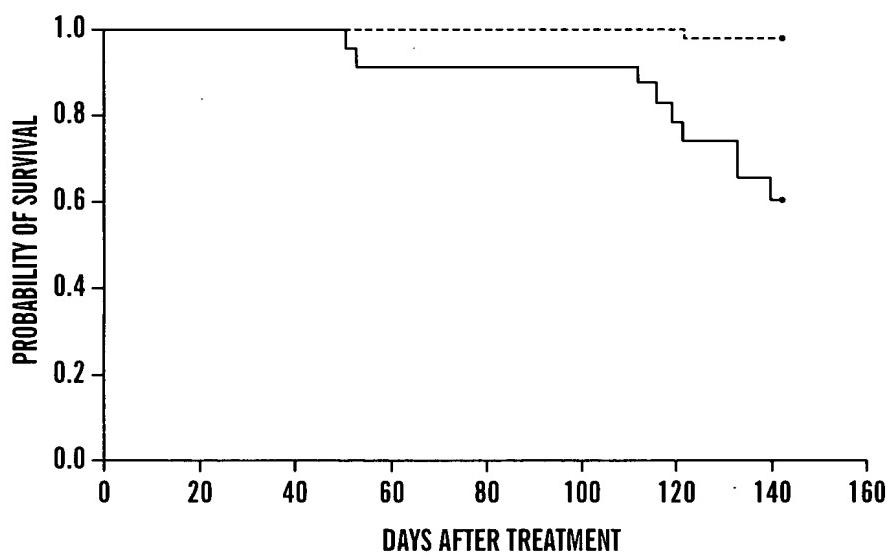


FIG. 6E

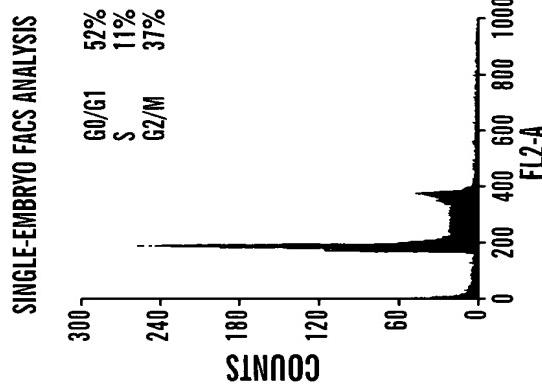


FIG. 7A

FACS ANALYSIS OF EMBRYOS
AFTER IONIZING RADIATION

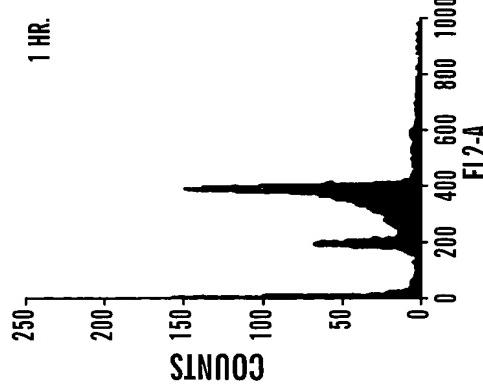


FIG. 7D

FACS ANALYSIS OF EMBRYOS
AFTER IONIZING RADIATION

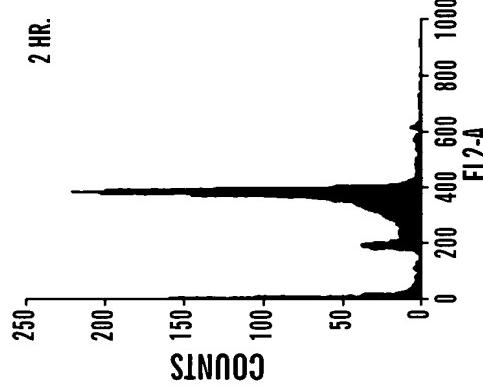


FIG. 7E

FACS ANALYSIS OF EMBRYOS
AFTER IONIZING RADIATION

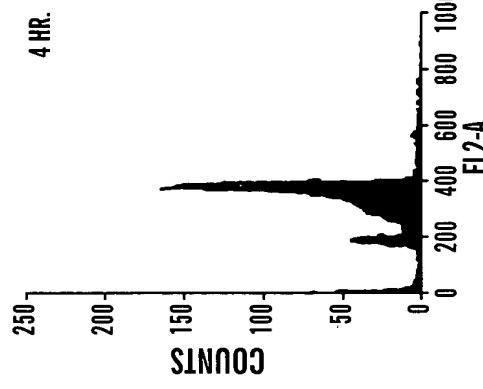


FIG. 7F

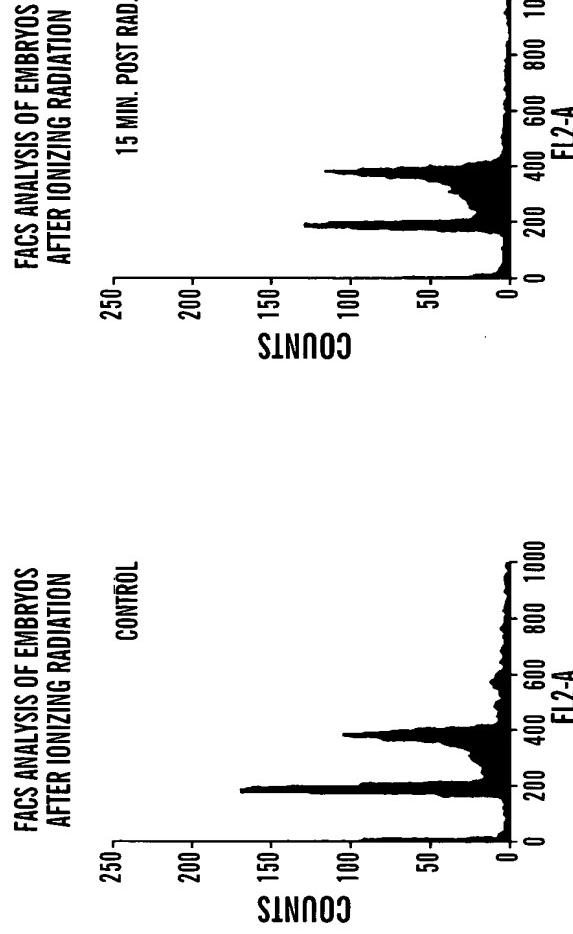
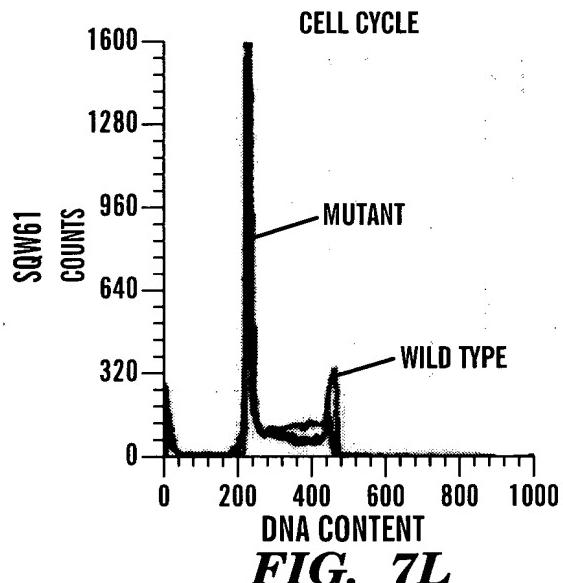
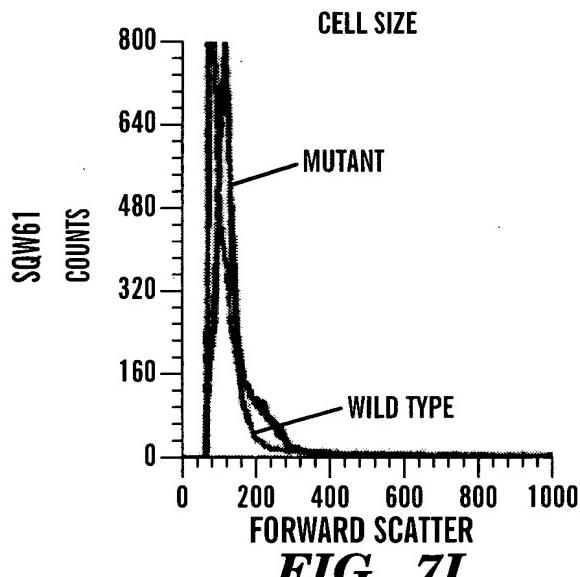
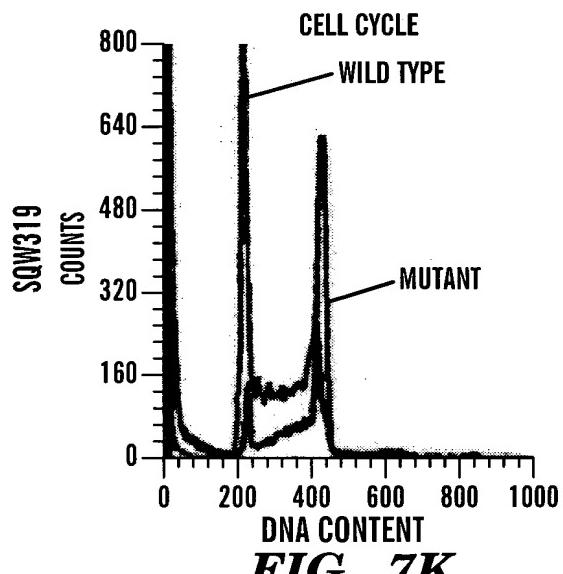
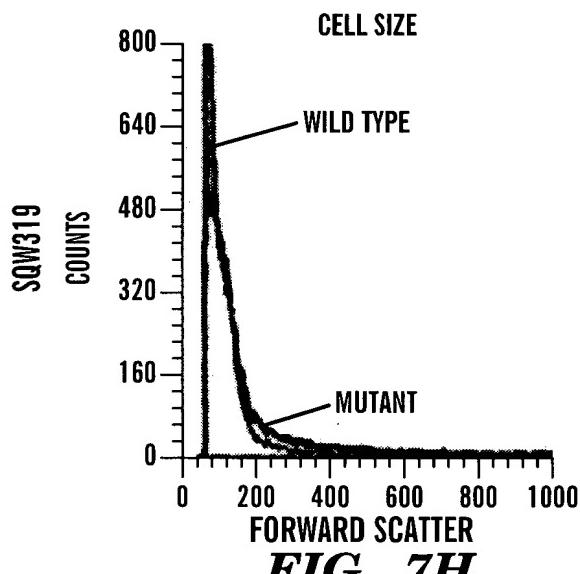
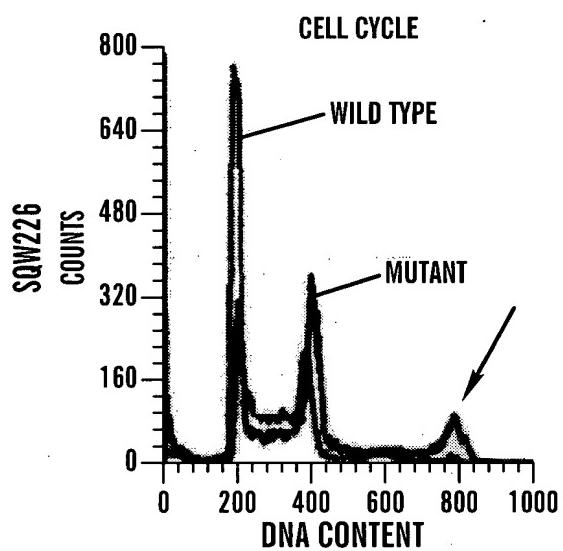
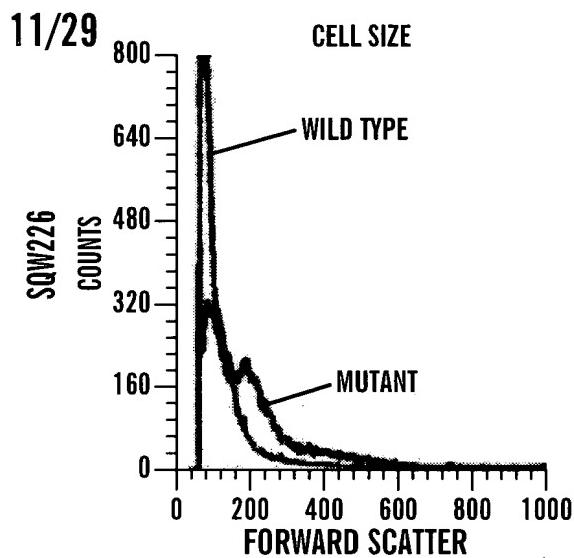


FIG. 7B

FIG. 7C

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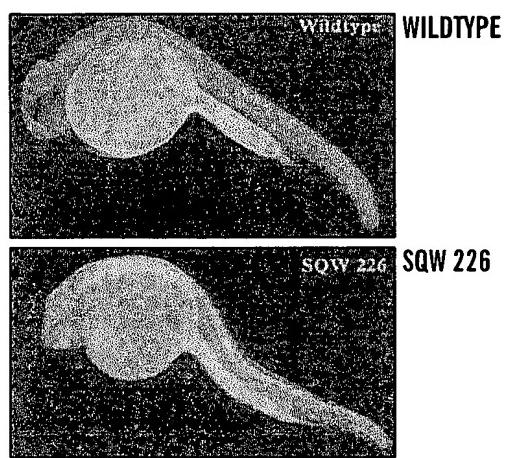


FIG. 8A

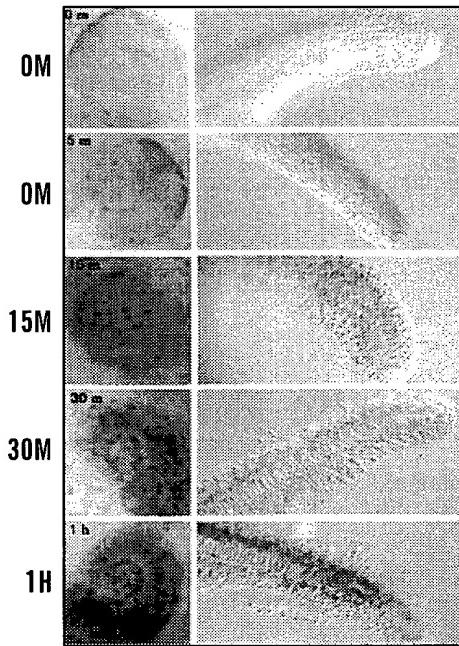


FIG. 8B

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WILD TYPE

SQW 226

SQW 319

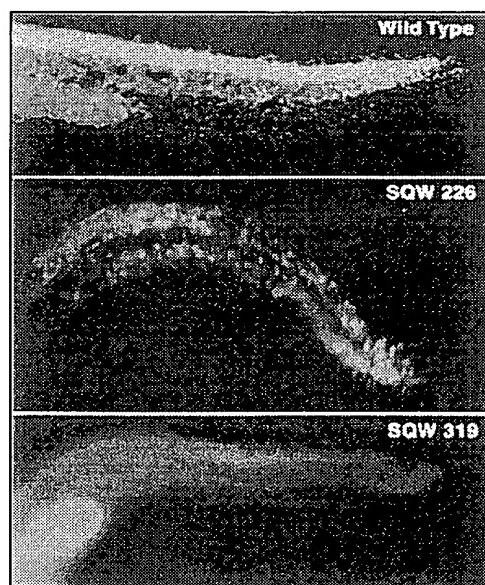


FIG. 8C

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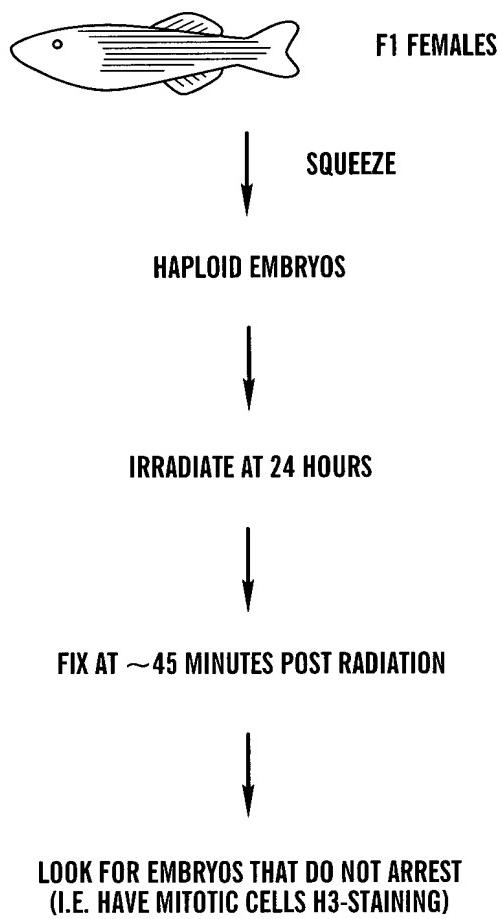


FIG. 9

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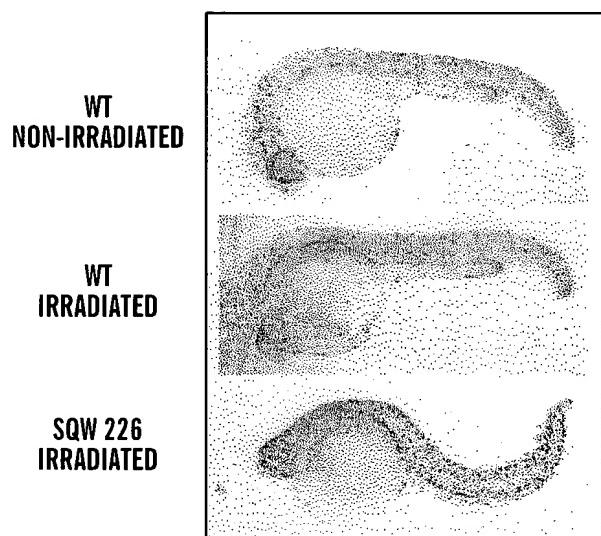


FIG. 10

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Zfish	MPPK--KRSSGTPQKKELKGSLSRSPDGDN-----AVLSPERHKDKPPEVFUSEEIQSTNSICDHAWRIWER	68
Frog	MPPKSPRK---QQIRSQGEPRSPDRP-----DFQOPDENFLCENLKISDNVRGKAWNTYEK	53
Human	MPPKTPRKTAATAAAAAAEPAPPAPPPEEDPEQOSGPEDLPLVRLFEETEEDFTALCQLKIPDHVRERAWLTWEK	80
Zfish	EIRSMDK-TNMPYSNRQWAGCLFTGMELEGINLUFTQFLSAVGLSVKFISLVRKMDVNVDTISPKVNSAVTRILENKY	147
Frog	MFPSGYMMRE-TAKKESLGLCLYIASVDCEEMTFTFIELLNLRLSVNRCFRLLREMIDINMDVLNSKVDNAISKEKKY	132
Human	VSSVDGVLGGYIQKKKELWCGICIFIAAVDLDEMSFTFIELOKNIEISVHFFNLLKEIDT----STKVDNAMSPULKKY	155
Zfish	DVTLALYQRFVKTCFKFAEPDNA-----KRKELWESSMTELLAKCTFLOMEDOLVISFQLLLCVLIEFFAKRLSFSL	220
Frog	ENMCLLFQKFQRTFELFEEQHNT---RAAVDTAPIKGTMIFLLARCKILQMDDELVISQQLLCVLDYFIRLSPASI	209
Human	DVLFAULFSKLERICELLYLTQPSS-SISTEINSALVKVSWITTELLAKCEVILQMEDOLVISFQLMLCVLDYFIRLSPPMI	234
Zfish	LQSPYNSVVSSTLSPPTRTSPANGKSKPR--PAEDMQLLETLKEGDSVDEVKNVYQSTFCALDSMCLLGLQCLP	298
Frog	LKEPYKSALNGLPVNTPPPSSRPSQRNRNTRVSPQSETDSKVLEFLCSQNYCPMDEVRNVYSTSFVFLASACISSNECIP	289
Human	LKEPYKTAV--IPINGSRPTPFGQRNSARIAKQLENTRIIIEVLOKEHECNIDEVKNVYIFKNFIPENSLGLVTSNGLP	312
Zfish	PMEALSKQYEELTHKSKDFDARLFLSDETLSPNKEVSKVEVTPRKNLFAEDIAIPVPTPIRAARTSIQLRGDTSG	378
Frog	KVESISRQYEELTHKSKDFDARLFLSDETLKVDVQSDLERTPRKD--ESEVFVPVPTPIVFGAHTVQLMVTESSA	367
Human	EVENLSKRYEEVILANKDUDARLFLDHEKTLQTDIDSFETQTPRKSNLDEEVNVIPCHTPVBTWNTIQLQMMIENSA	392
Zfish	SDCPSSNLLWYYKNCTVDPGEIKKVEELGEVFIQFAQAVGQHCEGLGRKFYLCAQLYYKVMESMLYSEEKPLSVQH	458
Frog	NKEKPDTLDSYFSNCTVAPKTKITDRIEHFGHVFKFASSVGQACAEIYCQYKLQGCVLYYRVMEAIIKTEEEERLSVHN	447
Human	SDCPSENLLISYFKNCTVAPKESIKLKVKDGYIFKEFAKAVGGCCVEICSQYKLQGCVLYYRVMESMLYSEEKPLSICH	472
Zfish	FSKLLNNAAFTSLLACALEWVIATHVGSSLKNGGFRSSGASDVSEDLCFPWILSVFQLPAFDYKVIESFIKAEP TL	538
Frog	FSKLLNDIFHICLALLACAVEVVWASYARNA-----SQAYC-SGTNLSFPWILRAFEIKAFDYKVIECFIKAEP SL	518
Human	FSKLLNDIFHMSLLACALEWVWATYSRST-----SQN--LDSGTDLSFPWILNVNLKAFDYKVIESFIKAEGNL	542
Zfish	KHDIVKHLCERCEHIMESLAWRADSPLFDLIKQSRE-EGPGEQAEPPATLNQPLHHNHTAADLILSPVPPCRQ-----	610
Frog	TSMVIKYLERCEHQIMECLAWQSDSPLFDLIKQTREREGVLDHPELVSNLQQPVQHNHTAADLILSPSRSSHQHPVTSVP	598
Human	TREVIKHLCERCEHRIMESLAWLSDSPLFDLIKQSREGPTDHLESACPENLPLQNNHTAADMLILSPVSPKKKGSTRV	622
Zfish	--P-PVMEAEPPTP--GTRAPRSNLSLFLYKKLYRMAYLRLKMLFSNLLTSHPREMEPIIWTLILQHTLQNEYELMRDRHLD	685
Frog	TSSVTNGVSSSSQPVQ---QKSTSLSLFYKKVLLAYKRLSSLCSLLSDHPELEQVIWTLILQHTLQNEYELMRDRHLD	674
Human	NST-ANAETQATSAFQTQPLKSTSLSLFYKKVYRLAYLRLNTUCERLLSEHPELEHIIWTLIFQHTLQNEYELMRDRHLD	701
Zfish	QIMSAMYAICKVKHVDLRFKTIIVTAYKELPNTQETFKRLIREGYQDSIIVFYNLVFMQKLKTNILQYSPFPPPLSP	765
Frog	QIMCMCSMYGICKAKNIQKRFKTIIVTAYKCLNTNQETFKHLIRDQGHDSIIVFYNLVFMQKLKSHILQYGSARHPTLSP	754
Human	QIMCMCSMYGICKVKNIDLKFKIIVTAYKDUPHAVQETFKRLIKEEYDSIIVFYNLVFMQKLKTNILQYASIRPPTLSP	781
Zfish	IPHIPCSPYK--NSPLRVPCSNNVYVSPLKSSRV-----SPLVATPRSRILISIGESFGSADKFQKINQWVSSSDWSLK	837
Frog	IPHIPRSPYRFGNSP-KVPC--NIYVSPLKTPYKTADGLLSPSKMTPKTSFLISLGETFRSPDRFQKINQMLNSCERPIK	831
Human	IPHIPRSPYKFPSSPLRIPCGN-IYISPLKSPYKISEGLPTKMTPRSRILISIGESFGTSEKFQKINQWVNSDRVLK	860
Zfish	RSLDGGSAPKPLKRLRFMDGCDDEADGSKS-SGESALIQQKLAEMSSTRSRMQEQQKLKEESDKHPEP. SEQ ID NO: 1	904
Frog	RSADETTTPKPLKKLRFDSDCDDEADGSKHIQGESKFQQKLAENTISTRTRMQKQKLEESLESSQEEK SEQ ID NO: 2	899
Human	RSAEGSNPPKPLKKLRFDIECSDEADGSKHLPGESKFQQKLAENTISTRTRMQKQKMNDSMDTSNKEEK SEQ ID NO: 3	928

FIG. 11

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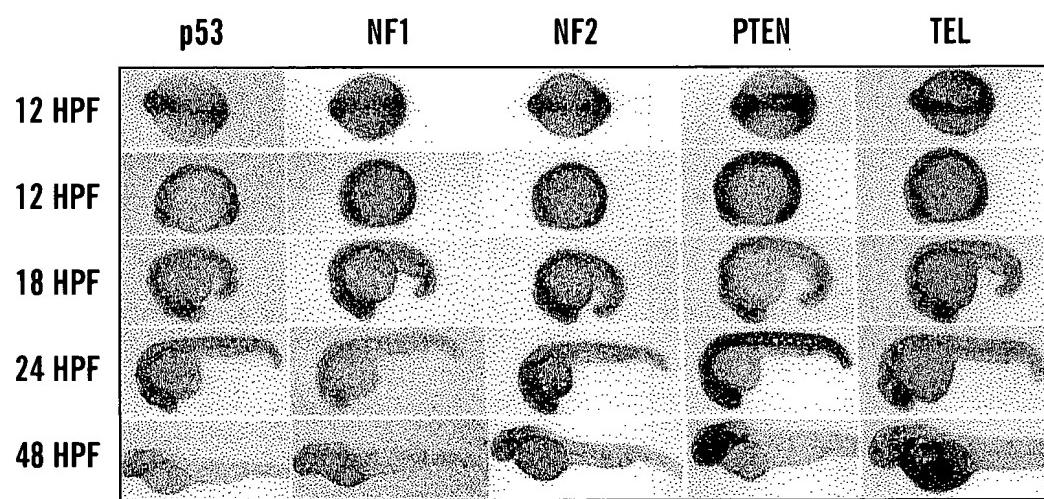


FIG. 12

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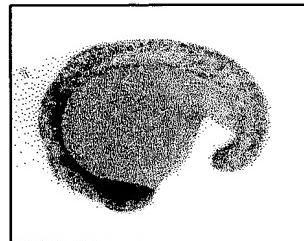


FIG. 13A

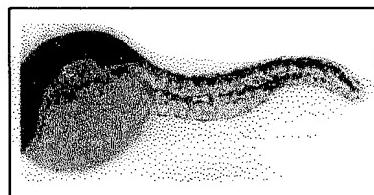


FIG. 13B

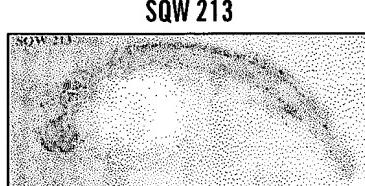


FIG. 13C

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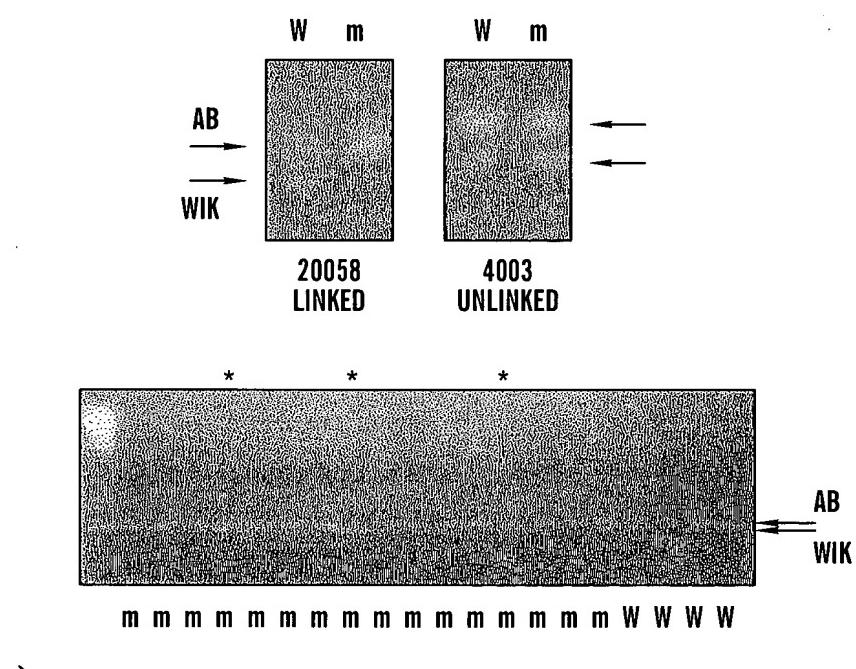
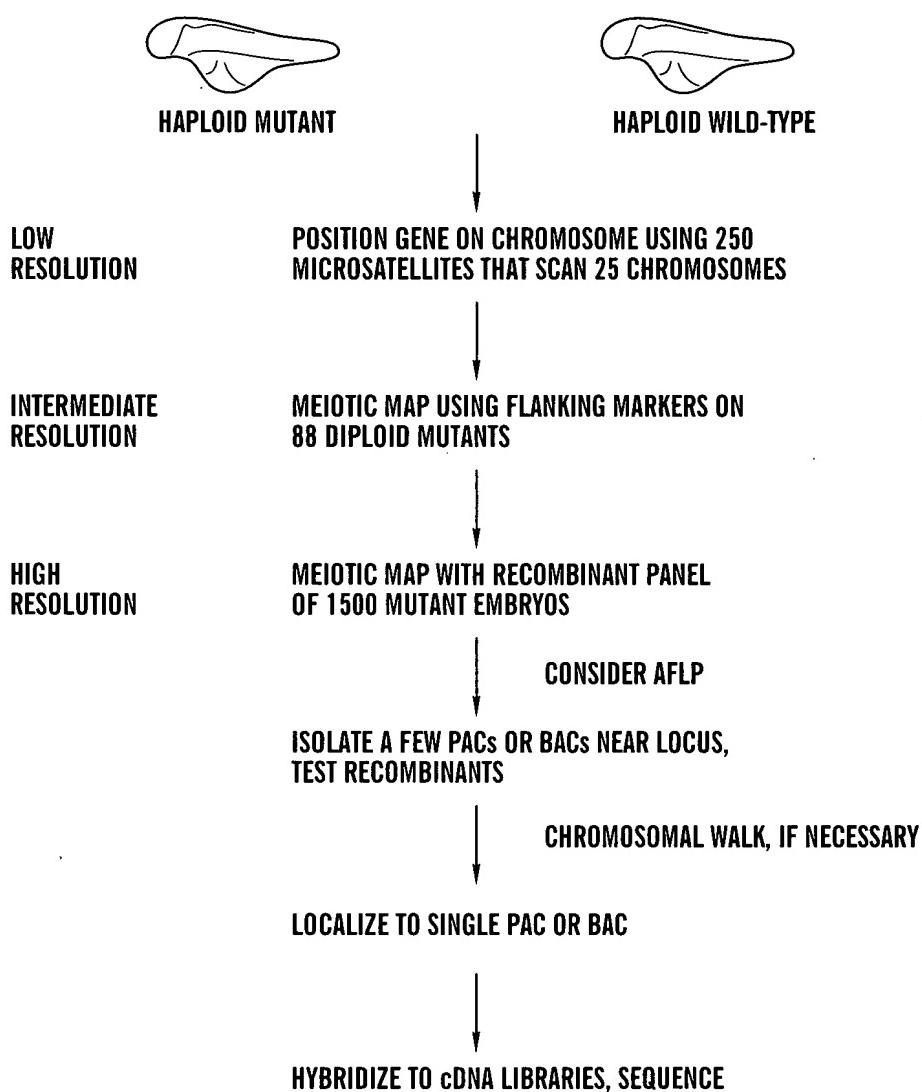


FIG. 14

***FIG. 15***

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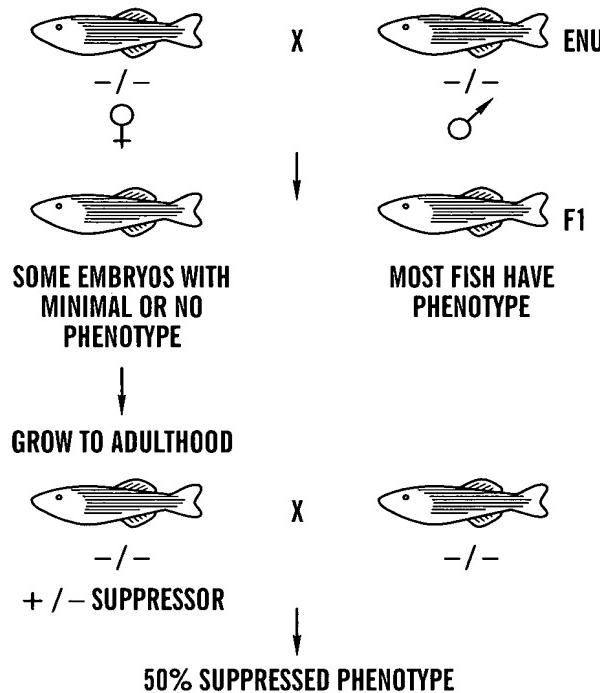


FIG. 16A

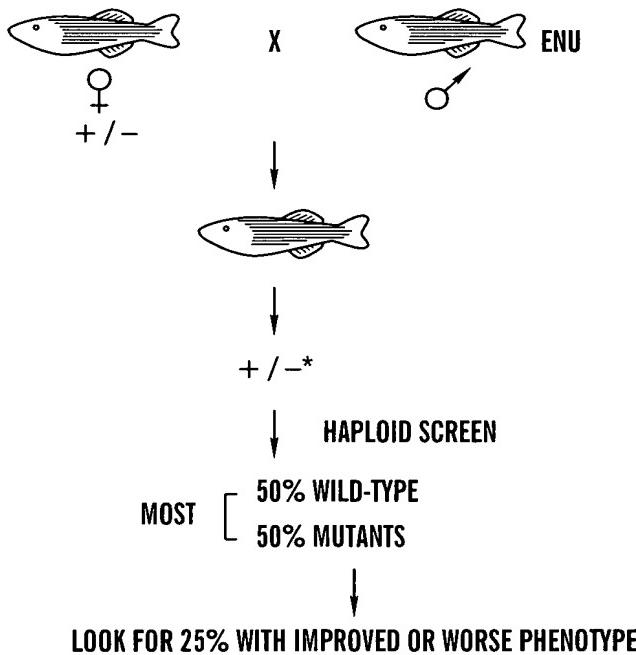


FIG. 16B

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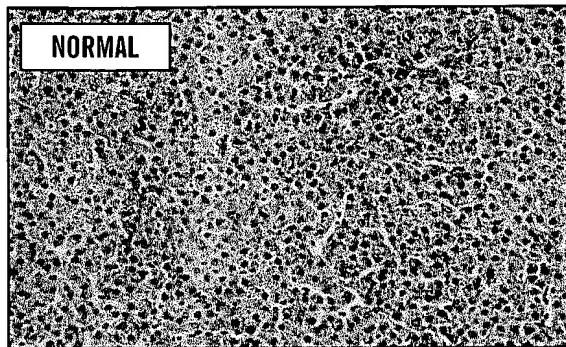


FIG. 17A

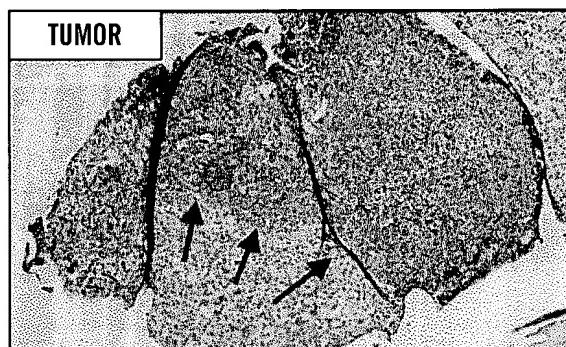


FIG. 17B

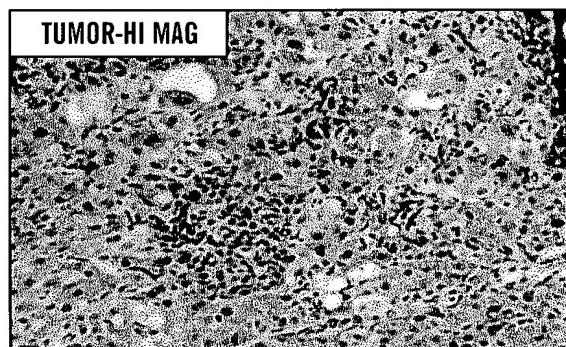


FIG. 17C

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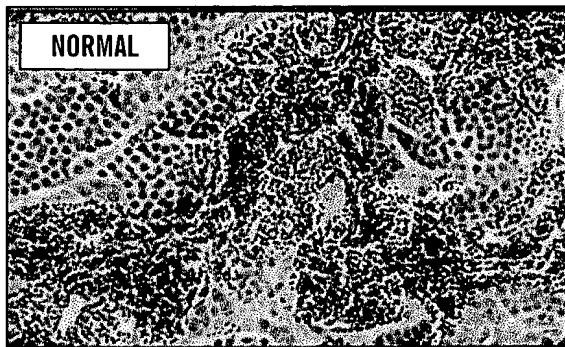


FIG. 18A

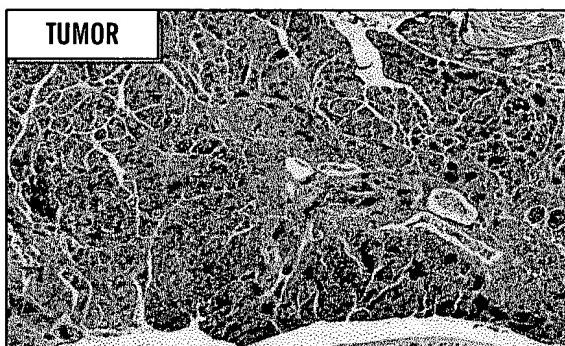


FIG. 18B

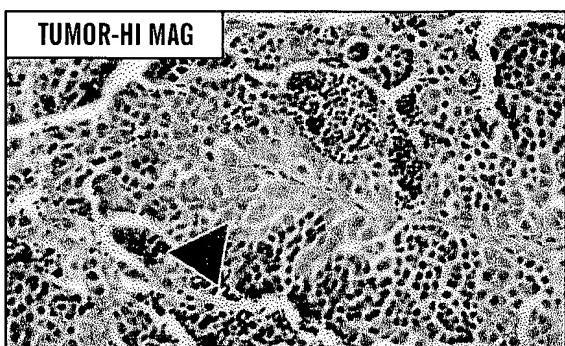


FIG. 18C

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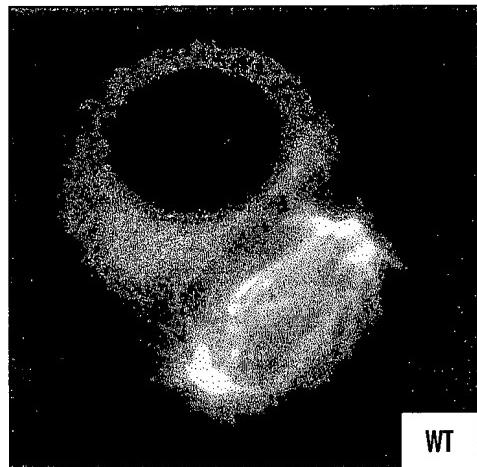


FIG. 19A



FIG. 19B

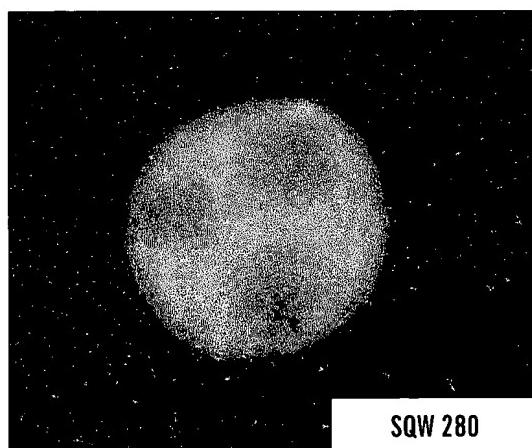


FIG. 19C

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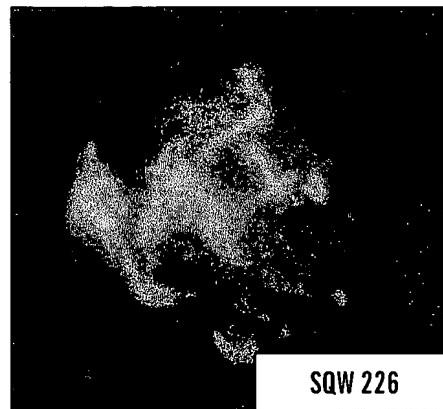


FIG. 19D

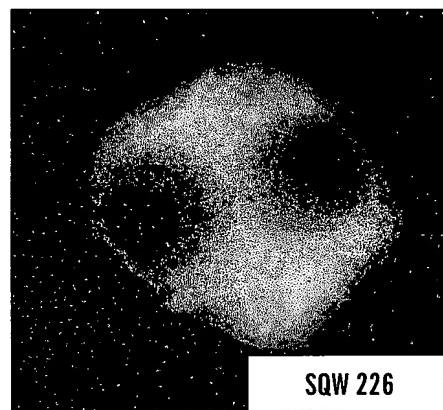


FIG. 19E

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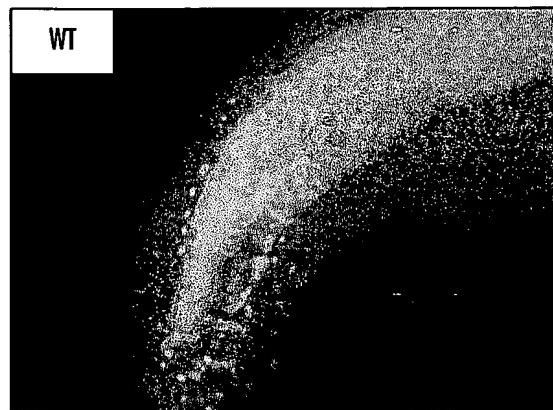


FIG. 20A

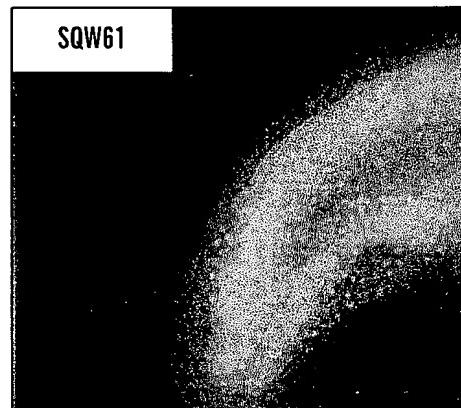


FIG. 20B

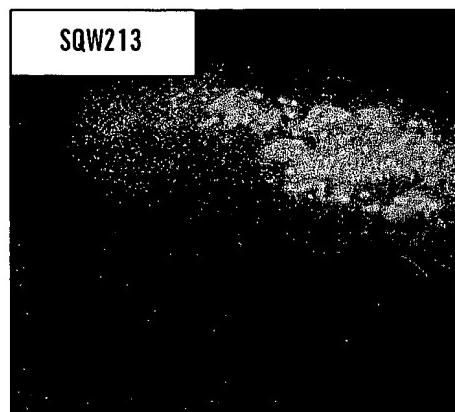


FIG. 20C

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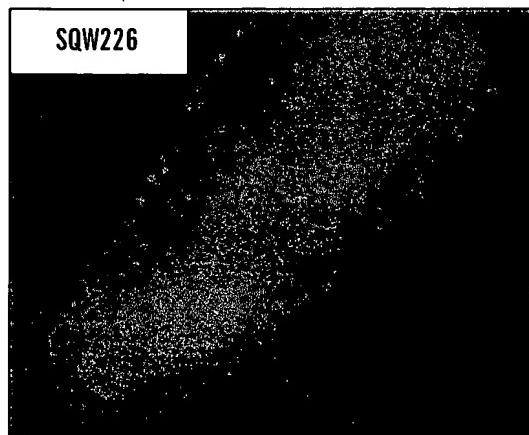


FIG. 20D

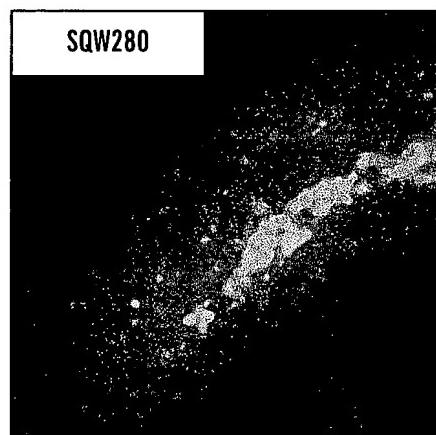


FIG. 20E

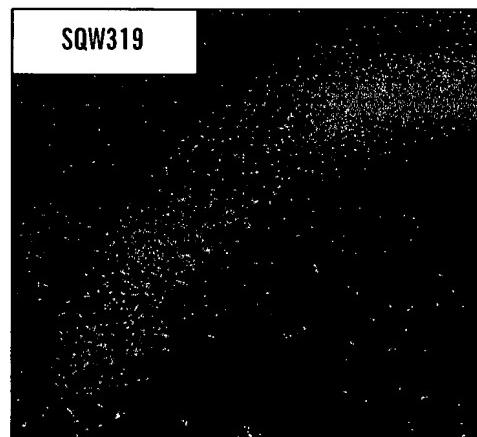


FIG. 20F

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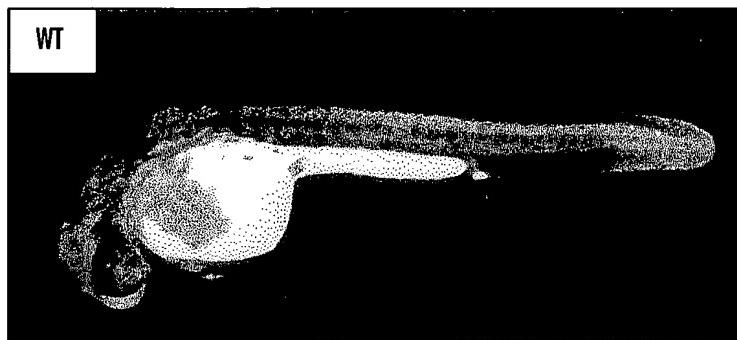


FIG. 21A

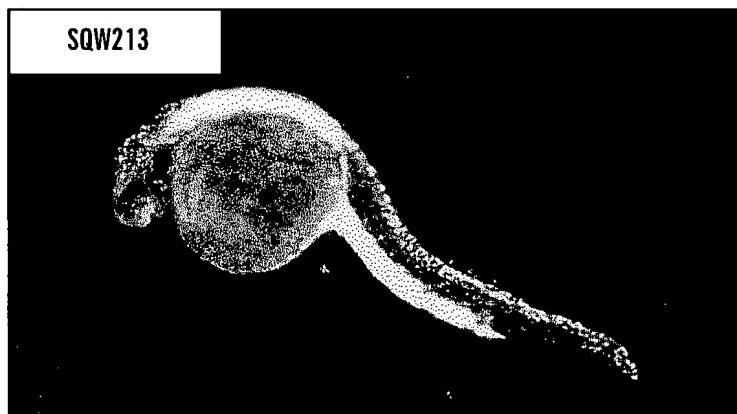


FIG. 21B

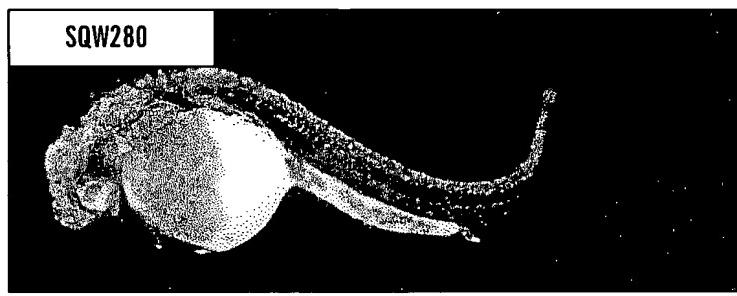


FIG. 21C

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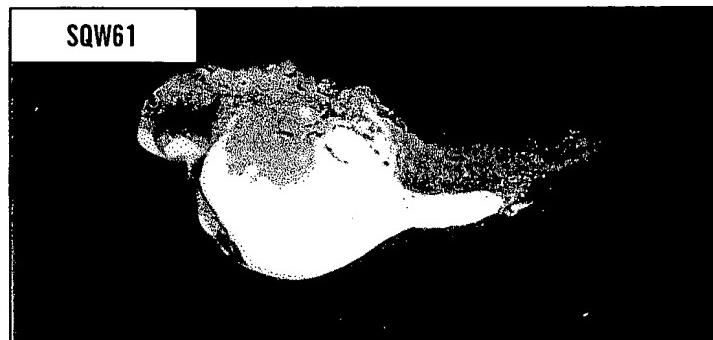


FIG. 21D

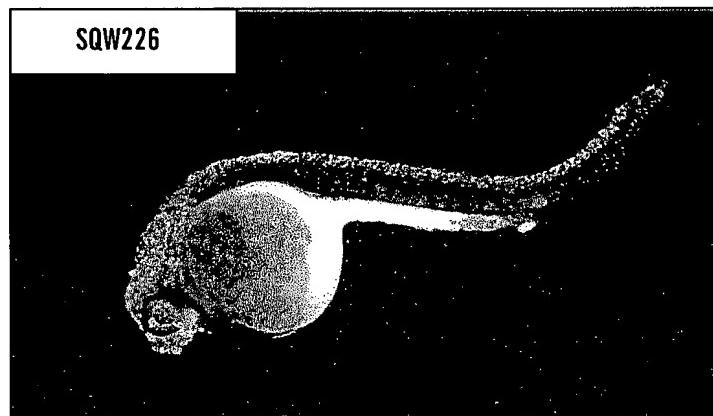


FIG. 21E

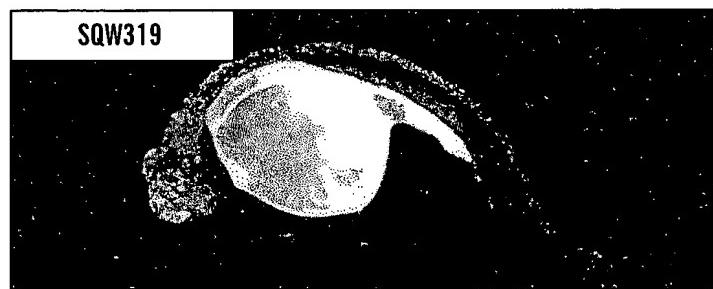


FIG. 21F